## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1	1. (Currently amended) A method for performing time measurements
2	during instrumentation-based profiling, comprising:
3	receiving a code to be profiled;
4	inserting profiling instrumentation code in the code;
5	allowing a user to select at runtime the instrumented portions of the code
6	to execute;
7	executing the code including the instrumented portions of the code;
8	measuring a time for executing instrumented portions of the code; and
9	subtracting an overhead time for the profiling instrumentation code from
10	the measured time to obtain the time for the instrumented portions of the code.
1	2. (Original) The method of claim 1, wherein the code includes platform-
2	independent Java bytecodes.
1	3. (Original) The method of claim 1, wherein the overhead time is
2	determined by executing the profiling instrumentation code without executing any
3	instrumented code.
1	4. (Original) The method of claim 3, wherein the profiling instrumentation
2	code is executed multiple times to determine an average value for the overhead
3	time.

- 5. (Original) The method of claim 4, wherein the profiling instrumentation
- 2 code includes method entry code that takes a first time measurement at the
- 3 beginning of a method, and method exit code that takes a second time
- 4 measurement at the end of the method, wherein the first and second time
- 5 measurements are used to calculate an execution time for the method.
- 6. (Original) The method of claim 5, wherein determining the overhead
- 2 time involves calculating an inner time  $t_1 = x_2 + y_1$ , wherein  $y_1$  is the time between
- 3 when the first time measurement is taken and when the method entry code is
- 4 finished executing, and wherein  $x_2$  is the time between when the method exit code
- 5 begins executing and when the second time measurement is taken.
- 7. (Original) The method of claim 6, wherein the time  $t_{exact}$  for executing
- 2 instrumented portions of the code is calculated as  $t_{exact} = t_{meas} t_I$ .
- 8. (Original) The method of claim 7, wherein if the method makes m calls
- 2 to other methods, the time for executing instrumented portions of the code
- 3  $t_{exact} = t_{meas} t_l mt_O$ , wherein the outer time,  $t_O = x_1 + y_2$ , wherein  $x_1$  is the time
- 4 between when the method entry code begins executing and when the first time
- 5 measurement is taken, and wherein  $y_2$  is the time between when the second time
- 6 measurement is taken and when the method exit code is finished executing.
- 9. (Currently amended) A computer-readable storage medium storing
- 2 instructions that when executed by a computer cause the computer to perform a
- 3 method for performing time measurements during instrumentation-based
- 4 | profiling, wherein the computer-readable storage medium includes magnetic and
- 5 optical storage devices, disk drives, magnetic tape, CDs (compact discs), and
- 6 DVDs (digital versatile discs or <u>digital video discs</u>), the method comprising:

7	receiving a code to be profiled;
8	inserting profiling instrumentation code in the code;
9	allowing a user to select at runtime the instrumented portions of the code
10	to execute:
11	executing the code including the instrumented portions of the code;
12	measuring a time for executing instrumented portions of the code; and
13	subtracting an overhead time for the profiling instrumentation code from
14	the measured time to obtain the time for the instrumented portions of the code.
1	10. (Original) The computer-readable storage medium of claim 9, wherein
2	the code includes platform-independent Java bytecodes.
1	11. (Original) The computer-readable storage medium of claim 9, whereir
2	the overhead time is determined by executing the profiling instrumentation code
3	without executing any instrumented code.
1	12. (Original) The computer-readable storage medium of claim 11,
2	wherein the profiling instrumentation code is executed multiple times to
3	determine an average value for the overhead time.
1	13. (Original) The computer-readable storage medium of claim 12,
2	wherein the profiling instrumentation code includes method entry code that takes
3	a first time measurement at the beginning of a method, and method exit code that
4	takes a second time measurement at the end of the method, wherein the first and
5	second time measurements are used to calculate an execution time for the method
1	14. (Original) The computer-readable storage medium of claim 13,
2	wherein determining the overhead time involves calculating an inner time $t_1 = x_2$

- $y_1$ , wherein  $y_1$  is the time between when the first time measurement is taken and
- 4 when the method entry code is finished executing, and wherein  $x_2$  is the time
- 5 between when the method exit code begins executing and when the second time
- 6 measurement is taken.
- 1 15. (Original) The computer-readable storage medium of claim 14,
- 2 wherein the time  $t_{exact}$  for executing instrumented portions of the code is
- 3 calculated as  $t_{exact} = t_{meas} t_{I}$ .
- 1 16. (Original) The computer-readable storage medium of claim 15,
- wherein if the method makes m calls to other methods, the time for executing
- instrumented portions of the code  $t_{exact} = t_{meas} t_l mt_O$ , wherein the outer time,
- 4  $t_O = x_1 + y_2$ , wherein  $x_1$  is the time between when the method entry code begins
- 5 executing and when the first time measurement is taken, and wherein  $y_2$  is the
- 6 time between when the second time measurement is taken and when the method
- 7 exit code is finished executing.
- 1 17-24 (Canceled).